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Groundwater Quality Protection Program

Rockdale
FACILITY NUMBER 1970850
WELL SITE SURVEY REPORT

Division of Public Water Supplies

IEPA/PWS/93-103

GROUNDWATER QUALITY PROTECTION PROGRAM:

Rockdale
FACILITY NUMBER 1970850
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

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INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

Rockdale obtains its water from three bedrock wells. These wells provide an average of 366,000 gallons per day to 518 services. See Table I for a description of each well. The surficial geologic susceptibility rating for all three wells is A1. The bedrock aquifer is overlain by sediments of varying permeability. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A complete description and geologic profile is found in the Facility Wells Report (Appendix C).

TABLE 1

	Minimum Setback (ft.)	Maximum Setback (ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft.)	Treatment	Aquifer	Well Depth (ft.)	Well Logs Avail.
Well 2 (00174)	400	No	A	500 0.720		Chl.Fl	Deep Bedrock	1575	*
Well 3 (00175)	400	No	A	unknown		Same	Shallow Bedrock	258	*
Well 5 (00176)	400	No	A	300 0.432		Same	unknown		*

A-Active
*-Well logs not available at this time

GROUNDWATER SAMPLING/MONITORING HISTORY

Rockdale Well #2 was sampled on July 22, 1987 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/ aromatic compounds (VOC/VOA). VOC/VOA analyses did not detect quantifiable levels of any organic compounds. IOC analyses indicate that parameters are consistent with other deep bedrock aquifers in Illinois (Appendix D).

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings:

The Rockdale well site survey was conducted on September 21, 1994 by Wade Boring from the Agency's Springfield Office. The following describes the results and findings for the Rockdale public water wells.

Rockdale Well #2 (IEPA #00174)

The survey area is urban. The area is a mixture of commercial, industrial and residential. Five potential sources of contamination were observed within 1,500 ft. of Well #2. They are Alessio & Sons (map code 13) 1,100 ft. SW, Ekco Glaco (map code 14) 900 ft. SW, G&M Auto Service (map code 15) 400 ft. S, Rowe Co. (map code 16) 600 ft. SSW and Werco Industries (map code 17) 1,000 ft. SSE.

Rockdale Well #3 (IEPA #00175)

The survey area is urban. The area is predominantly residential. No potential sources of contamination were observed within 1,500 ft. of Well #3.

Rockdale Well #5 (IEPA #00176)

The survey area is urban. The area is a mixture of commercial, industrial and residential. Twelve potential sources of contamination were observed within 1,500 ft. of Well #5. They are Ferro Construction (map code 1) 1,500 ft. SW, Wilhemi Distributors (map code 2) 1,300 ft. NW, Stephen Construction (map code 3) 1,000

ft. SW, UPS (map code 4) 950 ft. SW, Ziebart (map code 5) 650 ft. SW, Joliet Spring (map code 6) 50 ft. NE, General Refractories (map code 7) 1,000 ft. SSW, Columbia Pipe (map code 8) 650 ft. S, Englewood Electric (map code 9) 650 ft. SSE, T&R Autobody (map code 10) 250 ft. SE , M&B Construction (map code 11) 1,000 ft. SE and Alessio & Sons (map code 12) 1,300 ft. SE.

SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Rockdale public water wells.

- Five sites that have, or had, below ground fuel storage; UPS, Wilhemi Distributors, Ferro Construction, G&M Auto Service and Rowe Co.

- Six sites that generate, or generated, special or hazardous waste; General Refractories, Stephen Construction, Joliet Spring, Alessio & Sons, T&R Autobody and G&M Auto Service.

- Six other sites including M&B Construction, Ziebart, Columbia Pipe, Englewood Electric, Ekco Glaco and Werco Industries.

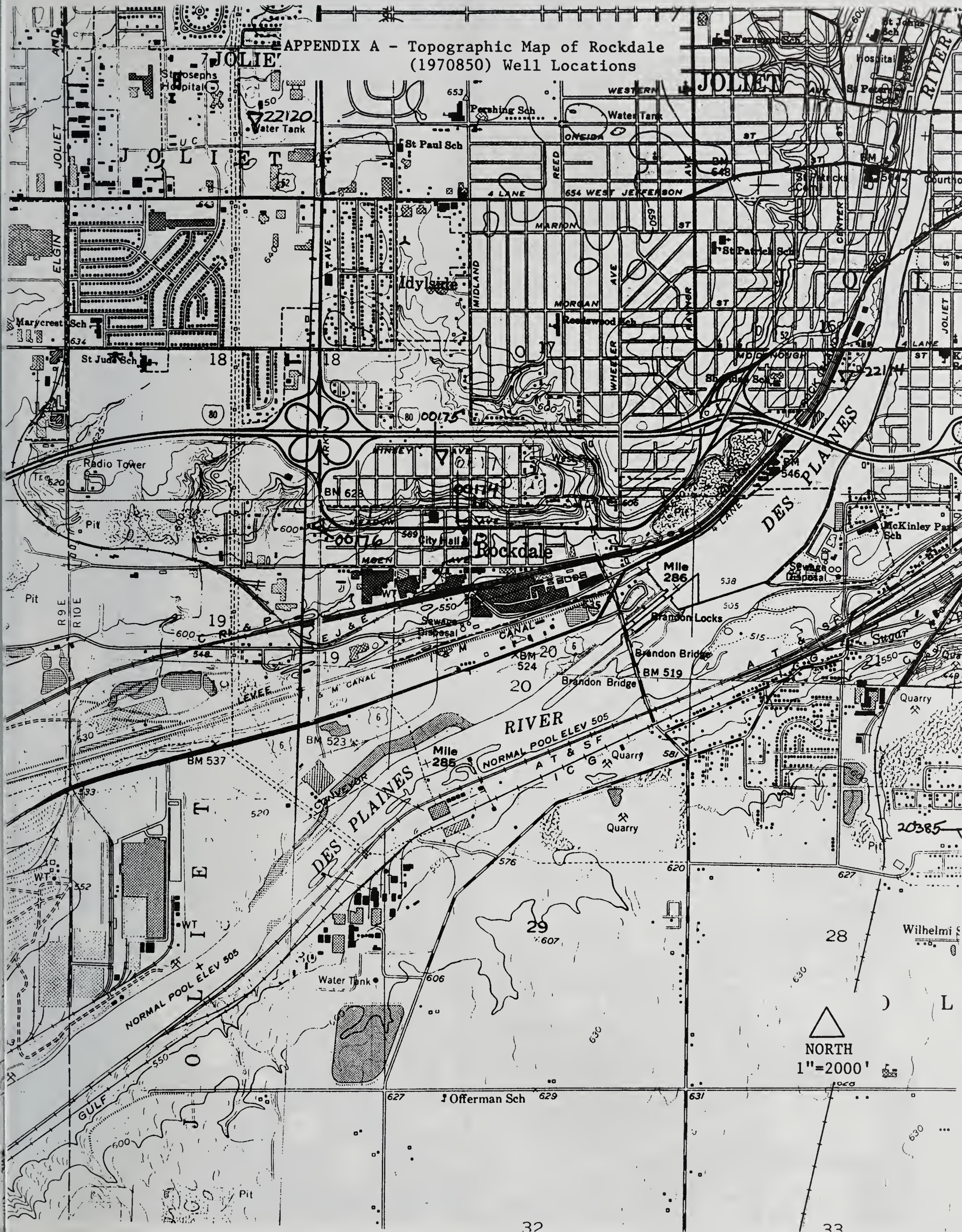
The Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

RECOMMENDATIONS

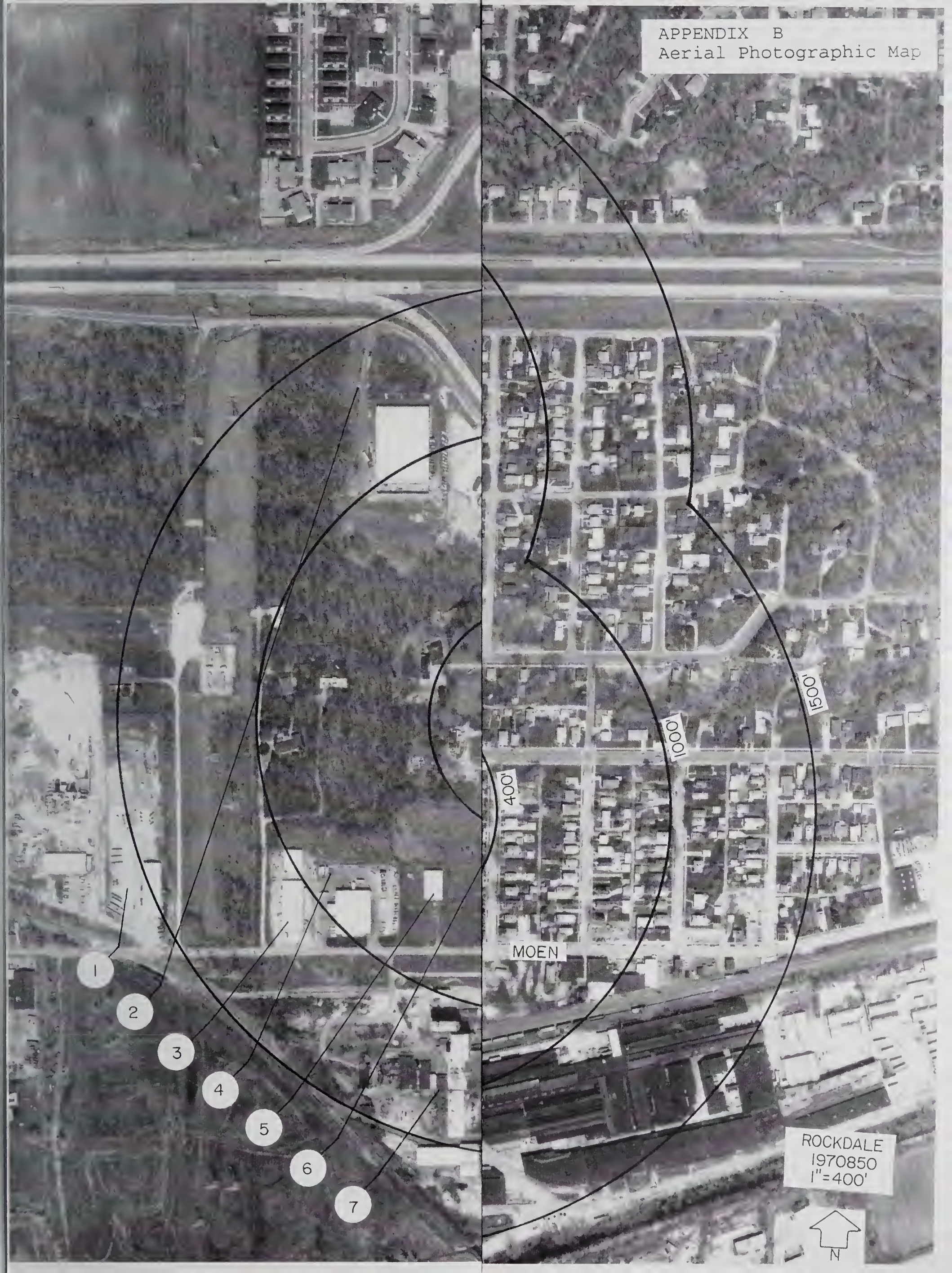
The Agency strongly urges Rockdale to consider establishing maximum setback zones for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.

TECHNICAL APPENDICES

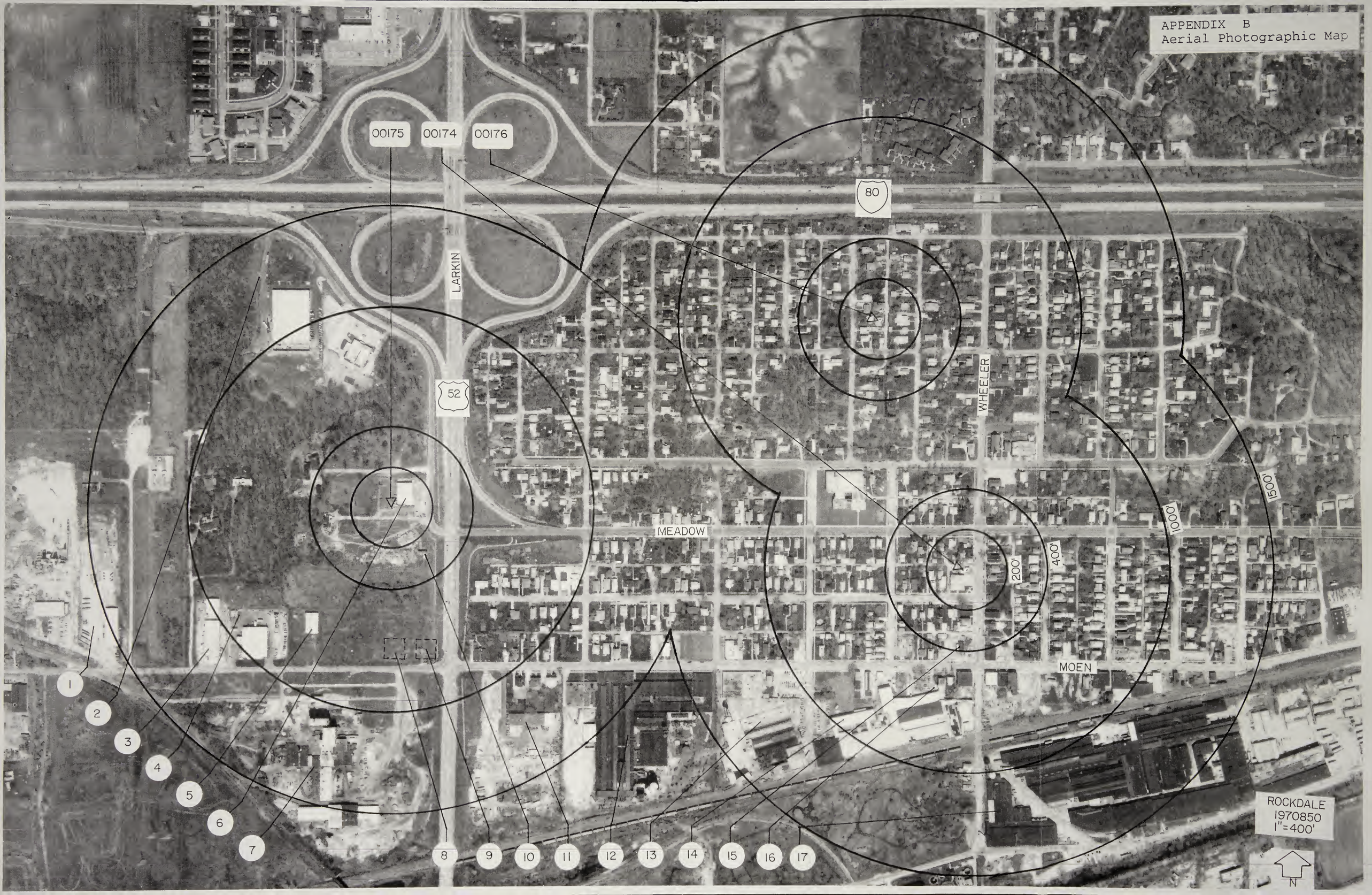
APPENDIX A - Topographic Map of Rockdale
(1970850) Well Locations



APPENDIX B
Aerial Photographic Map



APPENDIX B
Aerial Photographic Map



APPENDIX B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE-Rockdale Well #2 (IEPA #00174)

SURVEYOR:	W. Boring
SURVEY DATE:	9/21/93
ADDRESS:	Ken Andrews Village Hall 603 Ottis Ave Rockdale, IL 60436
AGENCY WELL NUMBER:	00174
WELL NAME & DESCRIPTION:	Well #2
TAP:	01
FACILITY NO. & NAME:	1970850
FACILITY PHONE CONTACT:	
LOCATION:	
TWP, RNG, SECTION, 10 ACRE PLOT:	35N,10E,20,6G
DISTANCE FROM CORNER SECTION:	
QUAD SHEET CODE & NAME:	53D-Joliet
MINIMUM SETBACK:	400 ft.
MAXIMUM SETBACK:	
GEOLOGIC SUSCEPTIBILITY RATING:	A1-bedrock overlain by sediments of varying permeability
AGE OF WELL:	1945
WELL DEPTH:	1575 ft.
DEPTH OF CASING:	431 ft.
AQUIFER CODE:	7593, Deep Bedrock
MULTIPLE AQUIFER (Y, N):	Y

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:

The survey area is urban. The area is a mixture of commercial, industrial and residential.

INTERVIEW(S):

NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B1: INVENTORY AND SYNOPSIS OF UNITS - Rockdale Well #2 (IEPA #00174)

CLASSIFICATION KEY	
MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 00174-13-OX
NAME & ADDRESS OF UNIT OWNER: Alessio & Sons, 800 Moen, Rockdale, IL 815/725-8324
DESCRIPTION AND COMMENTS: electrical, construction, trucking and development services, LPC #1970850011
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,100 feet SW

WELL NO. - MAP CODE - CLASSIFICATION: 00174-14-OX
NAME & ADDRESS OF UNIT OWNER: Ekco Glaco, Ltd, 800 Moen, Rockdale, IL 815/729-0116
DESCRIPTION AND COMMENTS: aluminum cookware manufacturing

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 900 feet SW

WELL NO. - MAP CODE - CLASSIFICATION: 00174-15-PS
NAME & ADDRESS OF UNIT OWNER: G&M Auto Service, 601 Moen, Rockdale, IL
DESCRIPTION AND COMMENTS: service station w/below ground fuel storage in excess of 500 gallons, no ISFM #, LPC #1970855010
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 400 feet S

WELL NO. - MAP CODE - CLASSIFICATION: 00174-16-OS
NAME & ADDRESS OF UNIT OWNER: Rowe Co., Moen St, Rockdale, IL

DESCRIPTION AND COMMENTS: below ground storage in excess of 500 gallons, no ISFM #
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 600 feet SSW

WELL NO. - MAP CODE - CLASSIFICATION: 00174-17-OX
NAME & ADDRESS OF UNIT OWNER: Werco Industries, 520 Mound, Rockdale, IL 815/744-1631
DESCRIPTION AND COMMENTS: unknown

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,000 feet SSE

APPENDIX B2 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE - Rockdale Well #3 (IEPA #00175)

SURVEYOR:	W. Boring
SURVEY DATE:	9/21/93
ADDRESS:	Ken Andrews Village Hall 603 Ottis Ave Rockdale, IL 60436
AGENCY WELL NO.:	00175
WELL NAME & DESCRIPTION:	Well #3
TAP:	01
FACILITY NO. & NAME:	1970850
FACILITY PHONE CONTACT:	
LOCATION:	
TWP, RNG, SECTION, 10 ACRE PLOT:	35N,10E,19,3H
DISTANCE FROM CORNER SECTION:	
QUAD SHEET CODE & NAME:	53D-Joliet
MINIMUM SETBACK:	400 ft.
MAXIMUM SETBACK:	
GEOLOGIC SUSCEPTIBILITY RATING:	A1-bedrock overlain by sediments of varying permeability
AGE OF WELL:	unknown
WELL DEPTH:	258 ft.
DEPTH OF CASING:	50 ft.
AQUIFER CODE:	5661, Shallow Bedrock
MULTIPLE AQUIFER (Y, N):	Y

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:

The survey area is urban. The area is predominantly residential.

INTERVIEWS
NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B2: INVENTORY AND SYNOPSIS OF UNITS - Rockdale Well #3 (IEPA #00175)

CLASSIFICATION KEY	
MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 00175
NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y, N):
DISTANCE AND DIRECTION:

APPENDIX B3 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE - Rockdale Well #5 (IEPA #00176)

SURVEYOR:	W. Boring
SURVEY DATE:	9/21/93
ADDRESS:	Ken Andrews Village Hall 603 Ottis Ave Rockdale, IL 60436
AGENCY WELL NO.:	00176
WELL NAME & DESCRIPTION:	Well #5
TAP:	01
FACILITY NO. & NAME:	1970850
FACILITY PHONE CONTACT:	
LOCATION:	
TWP, RNG, SECTION, 10 ACRE PLOT:	35N,10E,17,8B
DISTANCE FROM CORNER SECTION:	
QUAD SHEET CODE & NAME:	53D-Joliet
MINIMUM SETBACK:	400 ft.
MAXIMUM SETBACK:	
GEOLOGIC SUSCEPTIBILITY RATING:	A1-bedrock overlain by sediments of varying permeability
AGE OF WELL:	1987
WELL DEPTH:	unknown
DEPTH OF CASING:	unknown
AQUIFER CODE:	unknown
MULTIPLE AQUIFER (Y, N):	Y

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:

The survey area is urban. The area is a mixture of commercial, industrial and residential.

INTERVIEWS

NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B3: INVENTORY AND SYNOPSIS OF UNITS - Rockdale Well #5 (IEPA #00176)

CLASSIFICATION KEY	
MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 00176-01-OS
NAME & ADDRESS OF UNIT OWNER: Ferro Construction, 700 Rowell, Rockdale, IL 815/726-6284
DESCRIPTION AND COMMENTS: asphalt plant, below ground fuel storage in excess of 500 gallons, ISFM #2-002554
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,500 feet SW

WELL NO. - MAP CODE - CLASSIFICATION: 00176-02-OS
NAME & ADDRESS OF UNIT OWNER: Wilhelmi Distributors, I80 and Larkin, Rockdale, IL 815/741-8844
DESCRIPTION AND COMMENTS: beverage distributor w/below ground fuel storage in excess of 500 gallons, ISFM #2-019610
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,300 feet NW

WELL NO. - MAP CODE - CLASSIFICATION: 00176-03-OX
NAME & ADDRESS OF UNIT OWNER: Stephen Construction Services Inc., 1819 Moen, Rockdale, IL 815/725-0440
DESCRIPTION AND COMMENTS: sheet metal fabrication, LPC #1970850010

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,000 feet SW

WELL NO. - MAP CODE - CLASSIFICATION: 00176-04-OS
NAME & ADDRESS OF UNIT OWNER: United Parcel Service, 1817 Moen, Rockdale, IL 708/451-3317
DESCRIPTION AND COMMENTS: parcel delivery service w/below ground fuel storage in excess of 500 gallons, ISFM #2-013236
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 950 feet SW

WELL NO. - MAP CODE - CLASSIFICATION: 00176-05-OX
NAME & ADDRESS OF UNIT OWNER: Ziebart Tidy Car, 1813 Moen, Rockdale, IL 815/744-3088
DESCRIPTION AND COMMENTS: automobile undercoating

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 650 feet SW

APPENDIX B3: INVENTORY AND SYNOPSIS OF UNITS - Rockdale Well #5 (IEPA #00176)

CLASSIFICATION KEY	
MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 00176-06-XI
NAME & ADDRESS OF UNIT OWNER: Joliet Spring Inc., 809 S Larkin, Rockdale, IL
DESCRIPTION AND COMMENTS: spring manufacturer, LPC #1970850009, 1,820 gallons RCRA waste generated in 1989
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 50 feet NE

WELL NO. - MAP CODE - CLASSIFICATION: 00176-07-OX
NAME & ADDRESS OF UNIT OWNER: General Refractories Co., 1808 Moen, Rockdale, IL 815/725-5300
DESCRIPTION AND COMMENTS: refractory fire brick manufacture, LPC #1970855016, APC #197085AAA
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,000 SSW

WELL NO. - MAP CODE - CLASSIFICATION: 00176-08-OX
NAME & ADDRESS OF UNIT OWNER: Columbia Pipe and Supply Co., 1803 Moen, Rockdale, IL 815/729-3200
DESCRIPTION AND COMMENTS: pipe sales and construction supplies

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 650 Feet S

WELL NO. - MAP CODE - CLASSIFICATION: 00176-09-
NAME & ADDRESS OF UNIT OWNER: Englewood Electric, Moen Ave, Rockdale, IL
DESCRIPTION AND COMMENTS: electrical contractor

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 650 feet SSE

WELL NO. - MAP CODE - CLASSIFICATION: 00176-10-XI
NAME & ADDRESS OF UNIT OWNER: T&R Autobody, 901 S Larkin, Rockdale, IL 815/725-1028
DESCRIPTION AND COMMENTS: autobody repair shop, LPC #1970855008

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 250 feet SE

APPENDIX B3: INVENTORY AND SYNOPSIS OF UNITS - Rockdale Well #5 (IEPA #00176)

CLASSIFICATION KEY	
MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 00176-11-OX
NAME & ADDRESS OF UNIT OWNER: M&B Construction, Moen Ave, Rockdale, IL
DESCRIPTION AND COMMENTS: construction company

PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,000 feet SE

WELL NO. - MAP CODE - CLASSIFICATION: 00176-12-OX
NAME & ADDRESS OF UNIT OWNER: Alessio and Sons, 800 Moen, Rockdale, IL 815/725-8324
DESCRIPTION AND COMMENTS: electrical, trucking, construction and development services, LPC #1970850011
PRE OR POST (Y, N): Y
DISTANCE AND DIRECTION: 1,300 feet SE

WELL NO. - MAP CODE - CLASSIFICATION: 00176
NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS:

PRE OR POST (Y, N):
DISTANCE AND DIRECTION:

WELL NO. - MAP CODE - CLASSIFICATION: 00176
NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS:

PRE OR POST (Y, N):
DISTANCE AND DIRECTION:

WELL NO. - MAP CODE - CLASSIFICATION: 00176
NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS:

PRE OR POST (Y, N):
DISTANCE AND DIRECTION:

APPENDIX C

FACILITY: 1970850 ROCKDALE

---------- OWNER ----------

KENNISON ANDREWS

VILLAGE HALL

603 OTIS AVE

ROCKDALE IL 60436

---------- OFFICIAL CUSTODIAN ----------

WELL: 00174 W2 BY ELEV TK E OF MIDLAND S OF MEADOW STATUS: ACTIVE DRILLED DEPTH(FT): 1575
LATITUDE: N41 30 26.0 LONGITUDE: W088 06 48.0 TWP: 35N RNG: 10E SEC: 20 PLOT: 6G

SUSCEPTIBILITY - LAND BURIAL: A1 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0400 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: CHAMPLAINIAN SERIES

WELL: 00175 W3 W END OF MEADOW W OF LARKIN AV STATUS: ACTIVE DRILLED DEPTH(FT): 258
LATITUDE: N41 30 24.8 LONGITUDE: W088 07 28.3 TWP: 35N RNG: 10E SEC: 19 PLOT: 3H

SUSCEPTIBILITY - LAND BURIAL: A1 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0400 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00

WELL: 00176 W5 W OF HOWARD TWEEN KINSEY & LAKEVIEW STATUS: INACTIVE* BACKUP DRILLED DEPTH(FT):
LATITUDE: N41 30 37.2 LONGITUDE: W088 07 02.0 TWP: 35N RNG: 10E SEC: 17 PLOT: 8B

SUSCEPTIBILITY - LAND BURIAL: SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 200* ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SAND&GRAVEL-HOLOCENEAND PLEISTOCENE SERI

WELL: 20320 WELL 1 STATUS: INACTIVE* DRILLED DEPTH(FT): 1575
LATITUDE: N41 30 26.0 LONGITUDE: W088 06 48.0 TWP: 35N RNG: 10E SEC: 20 PLOT: 7G

SUSCEPTIBILITY - LAND BURIAL: A1 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 400* ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00

FACILITY: 1970850 ROCKDALE (CONTINUED)

WELL: 20320 WELL 1 (CONTINUED)

AQUIFERS: ORDOVICIAN-CAMBRIAN SYSTEM
ONEOTA DOLOMITE OF PRAIRIE DU CHIEN GROU
EAU CLAIRE FORMATION
IRONTON-GALESVILLE
GUNTER SANDSTONE OF PRAIRIE DU CHIEN GRO
CAMBRIAN SYSTEM
EMINENCE-POTOSI

SUSCEPTIBILITY CODES
LAND BURIAL: A1 = PERMEABLE BEDROCK AT OR WITHIN 20 FEET OF LAND SURFACE, VARIABLE OVERLYING MATERIALS.

*NOTE: INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED. INACTIVE WELLS WHICH ARE IMPROPERLY ABANDONED ARE CONSIDERED POTENTIAL ROUTES ACCORDING TO P.A. 85-0863.

APPENDIX D

FACILITY: 1970850 ROCKDALE STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: STATUS:
RAW SRCE: STATUS:

SAMPLE NO: B10608900 LOCATION: ROCKDALE COLL DATE: 05/01/91 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: K ANDREWS LAB RCVD: 05/07/91 RECEIVED BY: PMD
SMPL PURP: 5-SPEC/DTHR COMMENTS: LAB COMPL: 07/02/91 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 05/91 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.100			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	1183.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	705.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	342.000			
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	499.000			
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	1.130	4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	100.000			
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	133.000			
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.440	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.090			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	15.400			
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005 <	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050 <	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000 <	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	98.000			
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	54.000			
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	64.000			
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	6.100			
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	148.000			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	66.000	1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	268.000			
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000 <			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000 <	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000 <	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	23.000	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	7.000			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	50.000 <	1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	31.000	150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000 <			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	5.000 <	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	529.000			
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	20.000			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	100.000 <	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	465.000			

FACILITY: 1970850 ROCKDALE STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 WELL 1 CORNER OF OTIS AND MIDLAND AVES. STATUS: B
RAW SRCE: 20320 WELL 1 STATUS: I

SAMPLE NO: B71210000 LOCATION: ROCKDALE WELL 2 COLL DATE: 07/22/87 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 07/24/87 RECEIVED BY: MAD
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 10/28/87 LAB SUPERVISOR: RPF
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 07/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	512.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	277.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	1.380		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	37.000				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	108.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.780				
112T000	001	32730	PHENOLS, TOTAL RECOVERABLE UG/L	UG/L	5.000	<			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	7.900				
115T000	001	00665	PHOSPHORUS, TOTAL MG/L AS P	MG/L	0.100				
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	58.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	19.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	86.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	21.000				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	29.000		1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	771.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	93.000		1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	5.000	<	150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2689.000				
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	223.000				
530F000	001	72037	PUMPING RATE GPM	GAL/M	500.000				

SAMPLE NO: B049683 LOCATION: WELL #2 COLL DATE: 06/15/82 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: K ANDREWS LAB RCVD: 09/03/82 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 06/82 FUND CODE:

FACILITY: 1970850 ROCKDALE *** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		800.000				
		00403	PH LABORATORY UNITS		7.900				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		269.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.550				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		207.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		56.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		19.500				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		83.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		17.000				
		00940	CHLORIDE,TOTAL MG/L AS CL		34.000				
		00945	SULFATE,TOTAL MG/L AS SO4		102.000				
		00951	FLUORIDE,TOTAL MG/L AS F		0.980		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		7.400				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		30.000		1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		770.000				
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		30.000		5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		560.000		1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		20.000		50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000	<	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000	<			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000	<	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2300.000				
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000	<			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		23.000		5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		564.000				
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		480.000				
		71900	MERCURY,TOTAL UG/L AS HG		0.050	<	2.000		

SAMPLE NO: D75786900 LOCATION: ROCKDALE WELL 1 JOLIET COLL DATE: 07/22/87 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 07/24/87 RECEIVED BY: D V
SMPL PURP: 5-SPEC/OTHR COMMENTS: VOCS LAB COMPL: 08/27/87 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 07/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000	<			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			

FACILITY: 1970850 ROCKDALE *** CONTINUED ***

431A	00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<	
431A	00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	5.000
431A	00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000
431A	00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	
431A	00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	100.000
431A	00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431A	00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000
431A	00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000
431A	00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431A	00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	5.000
431A	00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	100.000
431A	00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	
431A	00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431A	00	017	78131	TOLUENE UG/L	UG/L	1.000	<	1000.000
431A	00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	700.000
431A	00	019	81551	XYLENE UG/L	UG/L	1.000	<	10000.000
5001200		001	72037	PUMPING RATE GPM	GAL/M	500.000		
5001200		002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	0.000		

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